

Abbreviations

ACIS	Access Control and Interlock System
AFM	Atomic Force Microscope
AIM	Accelerator Improvement Program
ALARA	As Low As Reasonably Achievable
ANL	Argonne National Laboratory
APS	Advanced Photon Source
APSUO	Advanced Photon Source Users Organization
ASD	Accelerator Systems Division
BCM	Bent-Crystal Monochromator
BCRRT	Beamline Commissioning Readiness Review Team
BM	Bending Magnet
BPM	Beam Position Monitor
BRC	Beamline Review Committee
CAMD	Center for Advanced Microstructure and Devices (at Louisiana State University)
CAT	Collaborative Access Team
CBT	Computer-Based Training
CC	Cold Cathode Gauge
CCD	Charge Coupled Device
CHESS	Cornell High Energy Synchrotron Source
CLO	Central Laboratory and Office Building
CPU	Central Processing Unit
CRP	Collaborative Research Program
CVD	Chemical Vapor Deposition
DCM	Double-Crystal Monochromator
DI	Deionized Water
DOE	Department of Energy
DRAM	Dynamic Random Access Memory
DSP	Digital Signal Processor
DX	Design Exchange
DXRL	Deep X-ray Lithography
EMW	Elliptical Multipole Wiggler
EPICS	Experimental Physics and Industrial Control System
EPS	Equipment Protection System
ESH	Environmental, Safety and
(or ES&H)	Health
ESH-TR	ESH Training Section
ESRF	European Synchrotron Radiation Facility
ETS	Equipment Tracking System

FDR	Final Design Report
FEA	Finite Element Analysis
FE-EPS	Front-End Equipment Protection System
FEL	Free-Electron Laser
FE	Front End
FEV	Front-End Exit Valve
FM	Fixed Mask
FOE	First Optics Enclosure
FV	Fast Valve
FWHM	Full Width Half Maximum
GERT	General Employee Radiation Training
HDF	Hierarchical Data Format
HVOF	High Velocity Oxygen Fuel
ID	Insertion Device
IDL	Interactive Data Language
IG	Ion Gauge
IOC	Input/Output Controller
IR	Infrared
LDDM	Laser Doppler Displacement Meter
LDRD	Laboratory Directed Research & Development
LOI	Letter of Intent
LOM	Laboratory/Office Module
LTP	Long Trace Profiler
MOU	Memorandum of Understanding
NEG	Nonevaporable Getter
NSLS	National Synchrotron Light Source
OFHC	Oxygen Free High Conductivity
OPI	Operator Interface
OUI	Operator/User Interface
PAR	Positron Accumulator Ring
PDR	Preliminary Design Review
PEB	Program Evaluation Board
PLC	Programmable Logic Controller
PMMA	Polymethylmethacrylate
PS1	Photon Shutter 1
PS2	Photon Shutter 2
PSPCD	Position Sensitive Photo-conductive Detector
PSS	Personnel Safety System

R&D	Research & Development
RD	Research Directorate
rf	Radio Frequency
RGA	Residual Gas Analyzer
SAD	Safety Assessment Document
SASE	Self Amplification of Stimulated Emission
SAXS	Small Angle X-ray Scattering
SBPM	Smart Photon Beam Position Monitor
SCI	System Controller Interface
SGM	Spherical Grating Monochromator
SPring-8	Super Photon Ring 8 (in Japan)
SRI	Synchrotron Radiation Instrumentation
SSRL	Stanford Synchrotron Radiation Laboratory
SV	Slow Valve
TBPM	Transmitting X-ray Beam Position Monitor
TLD	Thermal Luminescent Dosimeter
TTU	Topo Test Unit
TWG	Inter-CAT Technical Working Group
UHV	Ultrahigh Vacuum
URL	Uniform Resource Locator
UR	Undulator Radiation
US	Undulator Spectrum
WBS	Work Breakdown Structure
XBPM	X-ray Beam Position Monitor
XFD	Experimental Facilities Division
XOP	X-ray Optics Utilities